The oriminal specimens of E . sulphurelle have the head bright yellow, but the thorax and abdomen very palo ; they appear to be immature, and possibly should show brighter colours.
Prosopis fulvicornis, Smith.

This species has been rediscovered at Kalamunda, Feb. 928, 1914, and March 1-11, 191.1 (550 ft.), by Mr. R. E. 'Turner. Smith's description is good, but the sex described is male, not female, and the yellow spot on anterior femora is at the apex, not at the base. The secoml s.m. is very broat (long). The type of futcicornis was in the Baly collection, and until now the species has not been represented in the British Museum.

Prosopis elongatu, Smith.
Kalamunda, Feb. 9-28 (R. E. Turner ; British Museum).
'The wings are dusky and the second s.m. is not especially long.
LII.-Notes on Fossorial IIymenoptera.-XXII. On new Ethiopian Species. By Rowland L. 'I'uraer, F.Z.S., I.E.S.

## Family Psammocharidæ.

## Genus Batozonus, Ashm.

Batozonus, Ashm. C'amad. Entom. xxxiv. p. 81 (1902).
Heterony.r, Sauss. Soc. Entom. ii. p. 3 (l857) (nom. preocc.).
The type of Butozomus is B. alyidus, Sm., that of Heterony.x is $I$. madecassus, Sauss. 'The tarsal ungues are bifil in the male, but in the female the angnes of the fore tarsus only are bifid, the others being unidentate. The cubitus of the hind wing origimates before the transverse median nervure in both sexes, and the third cubital cell is always shorter than the second on the radius, often almost quadrate. The middle joints of the flagellum are strongly arcuate beneath in the male. The differences between the sexes are very striking in this genus.

## Fiey to the Ethiopiun Species of Batozonus.

$$
\text { ㅇ } 9 .
$$

1. Cubitus of hind wing originating at a distance before the transverse median mervire equal to more than half of the length of the third joint of the Hagellum.
Cubitus of the hind wiug originating at a distance before the transverse median nervure scarcely exceeding one-cirhth of the length of the third joint of the flagellum
2. Wings yellow, with a broad fuscous or fusco-violaceous apical margin
B. fuliginosus, Kilug.
3. 

Wiags black flushed with blue ............ 3
3. Legs bright fulvo-ferruginous ........... Leirs black, fore legs sometimes partly fusco-ferruginous
B. separabritis, Turn.
4. Pronotum and scutellum yellow ........ $\quad$ B. capensis, Dahllb., rar.

Thorax entirely black. ................... . . B. gowdeyi, Turn.

1. Cubitus of the bind wing originating at a distance before the transrerse mediau nervure equal to more than half of the length of the third joint of the flagellum. Cubitus of the hind wing originating at a distance before the transverse median nervure never exceeding one-third of the length of the third joint of the flagellum.
2. Wings flaro-hyaline, with a fuscous margin; frontal carina not strongly raised; clypeus with a median carina only
B. fuliginosus, Klug.

Winges fuscous flushed with blue; frontal carina rery high and sharp; clypens with an oblique carina on each side from near the base
2.
B. capensis, Dahlb.
3.
3. Legs fulvo-ferrnginous; dorsal snrface of scutellum conrex
B. goudleyi, Turn.

Legs black, fore legs only ferruginous; dorsal surface of scutellum flat

B. separabilis, Turn.

## Butozonus separabilis, sp. n.

ㅇ. Nigra; mandibulis, clypeo, fronte parte inferiore, scapo, tibiis anticis, femoribus anticis apice, tarsisque anticis basi fusco-ferrngineis; flagello, articulis tribus apicalibus exceptis, fulvo; alis nigro-cæruleis.
o. Niger; capite, pronoto, mesonoto, tegulis, scutello pedibusque anticis sordide ferrugineis; Hagello supra infuscato; alis fuscocæruleis, cellulis apicali discoidalique secunda subhyalinis.
Long., 아 $17-19 \mathrm{~mm}$., ठ6 $13-14 \mathrm{~mm}$.
Var. f. Pedibus anticis fere omnino nigris.
Yar. ${ }^{\circ}$. Scutcllo nigro.
f. Clypens broadly romded at the apex; the latrmm very shallowly emarginate at the apex and divided by a deep longitudinal sulens. Second joint of the flagethme long, about half as long again as the thim ; eyen reaching the base of the mandibles, distinetly divergent towards the elypens, separated on the vertex by a distance about equal to the length of the third joint of the flagellnm. Pronotnm widely arched posteriorly, not angn'ate in tho middle; the anterior angles very broadly rounded. Scutellum with a flat dorsal surface, narrowly romed at the apex; median secment gradually sloped posteriorly, without a median sulens. Dixth dorsal segment broadly rounded at the apex and thinly elothed with long Wack hairs. 'Third abscissa of the radius shorter than the second, a little shorter than the secomd tramsverse cubital nervare; second recurent nervire received beyond the middle of the third cubital cell ; basal nervure of the fore wing interstitial ; cubitus of the hind wing originating just before the tiansverse median nervure. Fore tarsi with a long comb, three spines on the basal joint. Ungues of the fore tarsi bifid, of the others unidentate.
d. Clypens very broadly rounded at the apex, subcarinate longitudinally in the middle; from the base a low carina branches towards the anterior angles, but does not extend to them. Labrum rounded at the aper, without a sulcus. A very high sharp carina between the antemae extending to the base of the clypeus. Front marked with an arched low carina on each side below the anterior ocellus, the area below the carine slightly concave. The joints of the flagellum from the fifth to the ninth are strongly arenate beneath, the second joint is equal to the third. Pronotum arcuate on the posterior margin, rather strongly narrowed in front. Seventh ventral segment with a longitudinal carina. Third abscissat of the radius shorter than in the female, being scarcely more than half as long as the second transverse cubital nervure. All the tarsal ungres bifid.

Hah. Manje, Nyasaland, October to March (S. A. Neave); Usagara District, German Last Africa, 2500 ft., December (S. A. Neave).

The fumale of this species closely resembles the tropical form of B. fuliginosus, Klug, and, like that species, varies much in the colour of the antemase and front; it may, however, at once be distinguished by the great difference in the point of origin of the cubitus of the hind wing, which in fuliginosus is separated from the transverse medan nervure by a distance exceeding half the length of the third joint of the flagellum, whereas in separabilis the distance does not
excced one-eighth of the length of that joint. The male is very different from fuliginosus, and though it differs much from the female, the sexual dimorphism is not as marked as in that species.

## Butazonus gowdeyi, sp. n.

f. Nigra; mandibulis fusco-ferrugineis; femoribus, tibiis tarsisque ferrugineis; alis nigro-cæruleis.
ठ. Niger; mandibulis, clypeo, fronte, orbitis posticis, femoribus, tibiis tarsisque ferrugincis; flagello subtus fusco-ferrugineo; pronoto margine posteriore fascia obliqua utrinque flava; alis fusco-purpureis.
Long., ㅇ $1 \overline{5}-17 \mathrm{~mm}$., of $13-15 \mathrm{~mm}$.
o. Except in colom this species strongly resembles B. separabilis, but has the scutcllum more strongly compressed, without a flat dorsal surface, and distinetly longitudinally carinate in the middle; the elypens is transverse at the apex; the labrum withont a sulcus and very narrowly notched in the middle ; the two apical dorsal segments more finely punctured.

万. The differences between this and the male of separabilis are mostly in colour, but the scutellum is much more strongly compressed in gowdeyi.

Hab. Uganda, Mabira Forest, July (C. G. Gowdey); Tero Forest, July (C. G. Gowdey) ; 'Tero Forest, 3800 ft., September (S. A. Neave) ; Bugoma Forest, Unyoro, 3700 ft ., December (S. A. Neave).

A single specimen labelled "West Africa" from F. Smith's collection.
'I'his is very near separabilis, and will doubtless prove to be the westem representative of that species; but the difference in the form of the scutellum seems to be a sufficient specific distinction.

## Batozonus capensis, Dahlb.

Pompilus capensis, Dahlb. Hymen. Europ. i. p. 49 (1843). $\circ$.
Pompilus rindex, Sm. Descr. New Species Hymen. p. 144 (1879). 아.
Pompilus ancyloneurus, Cam. Ann. Transraal Mus. ii. p. 123 (1910). 아.
A variety of the female from Magadi Junction, British East Africa, has the wings fuscous flushed with blue. The male from the same locality is normal.

## Butozonus fuliginosus, Klug.

Iomprilus fuliginosus, Klur, Symb. physic. t. xxxviii. fig. 6 (1834). of.
I'onpilus festions, Ḱlug, Symb. physic. t. xaxviii. fig. \& (18:31). ot.
I'ompilus bretonii, (iuér. Miag. de \%ool, xiii. p. 4 (1843). I (nec ס ).

Pompilus iridipennis, sm. Descr: New Species 1 ymen. j. 144 (1879). $\%$.
Pompilus stpulchralis, Sm. Descr. Now Species Hymen. p. 145 (1879). ㅇ.
Priocnemis athuticus, Kirby, Ann. \& Mag. Nat. Hist. (5) xiii. p. 408 (18゙ち). \& (nec ठ).
Pompilus solunus, liohl, Jahrb. wisa. Anstnlt. Llamburg, x. p. 184 (l) 4 ) $\%$.

Pumpilus contentiosus, Grib. Aun. Mus. Cir. Genova, xxi. p. 305

Anoplius óneili, Cam. Ree. Albany Mus. j. p. 127 (1904). ס'.
This is distinguished from the other Ethiopian species of Batozonus by the great distance between the point of origin of the cubitus of the hind wing and the transverse median nervure. 'The female in tropical Africa always has the wings black flushed with blue, the abdomen entirely black, and the antenne varying from yellow to black. But the typical form figured by Klug has the wings yellow-brown with a fuscous margin and a dull yellow band at the base of the second dorsal segment ; this is the Saharan form, having been described by Klug from Dongola ; it was also obtained by Wollaston from Sal Island in the Cape Verde Group, though the usual tropical form was described by Kirby from St. Vincent in the western part of the same group. The ground-colour of the male abdomen varies from black to dull ferringinous. 'The species seems to range over the whole of Africa except the extreme north, and is represented in Madagascar by the nearly allied B. madecassus, Sauss. In India it is replaced by the allied $B$. unifusciutus, Sim.

## Family Crabronidæ.

## Subfamily Stizinas.

## Stizus lughensis, Magr.

Stizus lughensis, Magr. Ann. Mus. Civ. Genora, xxxix. p. 606 (1898).
f. Nigra; mandibulis basi, labro, clypeo dimidio apicali, orbitis internis et externis latissime, fronte sub antemnis, scapo subtus, pronoto margine posterione, postscutcllo, segmento dorsali primo macula parra transecrsa utrinque, scoundogue fascia lata iuterrupta flavis; clypeo dimidio basuli, antennis, pronoto, mesonoto
lateribus, tegulis, scutello, segmentis rentralibus, segmentis dorsalibus primn, quinto sexfoque, segmento secundo basi, pedibusque ferrugineis; alis fusco-hyalinis, apice late hyalinis, cellula radiali fusca, renis uigris.
Long. 24 mm .
ㅇ. Apical joint of tho flagellum conical, fully as long as the penultimate; clypens with a few shallow punctures on the apical half, the basal half with closer and smaller piliferons punctures. Immer margin of the eyes almost paraltel. Scutellum with a large punctme or depression near the middle, as in S. ruficornis; thorax finely and closely punctured. First dorsal segment much more finely punctured than the rest of the abdomen; sixth dorsal segment very finely and not very closely punctured, rather narrowly rounded at the apex. First transverse cubital nervure straight.

Mlab. Bohotle, Somaliland (Appleton).
This is very near S. ruficormis, but differs much in the colour of the wings and abdomen. The sixth dorsal segment is also more finely and sparsely punctured, and is rather more narrowly rounded at the apex, and the pygidial area more clearly defined. The punctures of the clypeus are also less distinct.

## Stizus ritsemce, Handl.

Stizus ritseme, Handl. Sitzungsber. Akad. Wiss. Wien, cir. p. 1000 (1895). 아.

Hab. Ilorin, N. Nigeria, April (J. W. Scott Macfie). A single female in the British Museum.

## Stizus multicolor, sp. ṇ.

§. Ferrugineus; mesonoto, mesopleuris, segmento mediano basi late, segmento dorsali primo apice, secundo basi late, tertioque basi nigris; clypeo, labro, fronte sub antennis, scapo subtus, pronoto margine posteriore, postscutello fascia apicali, segmento mediano fascia interrupta trausversa, segmento dorsali primo macula parra utrinque, segmentis 2-5 fascia lata interrupta, sextoque dimidio basali flavis; alis hyalinis, renis ferrugineis, cellulis radiali cubitalibusque secundo tertioque infuscatis.
ㅇ. Mari simillima, segmentis dorsalibus secundo tertioque basi ferrugineo-maculatis, fasciis flavis latissime interruptis.
Long., o 18 mm ., ㅇ 21 mm .
ठ. Clypeus widely but not deeply emarginate ; eyes parallel on the inner margin; apical joint of the flagellum
mo longer than the penultimate, slighty curved and excavate heneath, very bhant at the apex; thorax and the whole abdomen finely and elosely punctured ; seventh dorsal segment namowly romble at the apes: first transverse cubital nervine eurved; second abscissa of the radius as long as the first.

甲. Apical joint of the flagellum very blunt at the apex ; scutelhme withont a median dopression; the whole insect more fincly punctured than the mate, the punctures on the first dorsal segment mieroscopic; sixth dorsal segment chorely and not finely punctured, clothed with very short fulvons setie, narrowly romded at the apex, the mar cins of the pygidial area not elevated. Basal juint of the anterior tarsi with six spines.

Hub. Ugranda ; Elephant Camp, Torn, November, 4 o $\sigma^{\sigma}$ (R. E. Mc Connell) ; Semliki Plains, near somthem shore of Lake Albert, $2 \underline{2}(0)$ ft., November, 2 of (S. A. Necue).

In the form of the female sixth dorsal segment, which is produced and narrowly romded at the apex, this resembles S. mbelius, 'l'urn., but in that species the clond on the fore wing is very faint and does not extend beyond the radial cell; the apical joint of the flagellum is also blunter in multicolor and the sellow markings very different, also the fulvous sete of the sixth dorsal segment. Jn S. ferrugineus, Sm., the clypens is more deeply emarginate. Handlirsch gives ferrugineus as a synonym of zonatus, Klug, but this is quite wrong. in my opinion.

## Stizus rubroflavus, sp. n.

ㅇ. Ferruginea; clypeo dimidio apicali, fronte sub antennis, scapo subtus, pronoto margine posteriore, segmento dorsali primo macula utrinque, segmentis $\geq-\overline{5}$ dorsalibus ef rentralibus fascia late interrupta, segmentoque dorsali sexto macula magna utrinque flaris: alis hyalinis, renis testaceis, cellula radiali leviter infunata.
Long. 20 mm .
f. Clypens broad, deflexed from the midtle and widoly emarginate at the apex, the basal portion subcarinate in the midlle and smooth, the apical portion and the labrmm coarsely but shallowly punctured. Frontal scutellum beiween the anteme and the base of the clypens short, about twice as broad as long. Thorax almost smooth; scutellum without a median depression ; median segment closely punctured. Ablomen shining, the two basal serments almost smooth; the apex of the third and the whole of the fourth
and fifth finely and closely punctured ; sixth dorsal segment more distinctly puncture l, rather broadly rounded at the apex, the pyodial area distinct but without strongly raised sides. Basal joint of the fore tarsus with seven long spines. Second abscissa of the radius much shorter than the first; the curvature of the first transverse cubital norvore very distinct.

H(b). Gambia (Simpson), March.
This is not the female of ferrugineus, Sm., which occurs in the same locality. 'That species was described from a male in which the first transverse cubital nervure is straight; the female of ferrugineus is very similar in colour to rubrofarus, but has thie mesonotum black and has a median depression on the scntellum, the elypens is not deflexed from the middle and is more sparsely punctured, and the puncturation of the thorax and ablomen, though fine, is much more distinct than in rubroflavus. Both species are on the wing in March.

## Stizus aurifturs, sp. n.

ㅇ. Nigra ; elypen, labro, mandibulis hasi, fronte sub antennis, pronoto margiue posteriore, segmento dorsali primo macula transrersa utrinque, segmentis dorsalibus 2-5 fascia lata interrupta flaris; capite, antennis, pronoto, mesonoto lateribus, scutello, segmento mediano, prgidio pedibusque ferrugineis ; pygidio apice dense aureo-sericeo; alis hyalinis, renis fuscis; costa late infuscata.
Long. 25 mm .
if. Clypens broadly emarginate, the emargination slightly angular in the middle; inner margin of the eyes almost parallel ; apical joint of the antemme conical, as long as the penultimate. Thorax finely and very closely punctured, scutellnm without a median depression ; pubescence long and greyish, more dense on the median segment than elsewhere. Abdomen closely and very distinctly punctured; sixth dorsal segment more closely punctured, clothed with ferruginous rubescence at the base, with shining golden pubescence at the apex, with a well-marked pygidial area, very broadly rounded at the apex. Basal joint of the fore tarsi with eight stout but not very long spines. Second abscissa of the radius shorter than the first; the costa thickened and forming a very distinct rounded stigma at the base of the radial cell.

Ilub. Yapi, Gold Coast (Simpson).
This is very near chrysorrhceus, Handl., but differs from S.-African specimens sent by Dr. Brauns under that name in
the much broder pygidial area, the much stronger punctuatonn of the abdomen, the colour of the nervares, and the costal infuscation, which in chrysorrhens is confined to the radial and second and third culbital cells, the more clearly defined stigma, and the more deeply emarginate clypous. The spines of the basal joint of the fore tarsus are shorter and more numerons than in chrysorthers.
S. murshulli, 'lurn, is also near chrysorrheme, but has the prgidial area much less distinct and also somewhat broader, with the golden pubescence almost absent; the colouring, especially on the first dorsal segment, is also different. A varicty of cheysorvhens from Marsabit, British East Afrien, hats the basal dorsal segment forrnginous in the middle in both sexes, but appears to be identical otherwise. It is possible that $S$. aurifturs may prove to be the female of S. tenuicornis, Sm., but the colour of the wings is different.

## Stizus neavei, Turn.

Stizus neavei, Turn. Am. \& Mag. Nat. Hist. (8) ix. p. 343 (1912). ó
This species, from North Rhodesia, is nearly allied to the Sunth-African Stieus imperinlis, Handl, but may be distingruished by the deeply emarginate clypens as well as by the less extensive yellow markings. The seventh tergite of the male is much narower than in S. imperialis.

Stizus franzi, nom. nov.
Stizus nearei, Kohl, Rev. Zool. Afric. iii. 1, p. 209 (1913). ㅇ (nec Turner).
There is a single specimen of the female in the Briti-h Museum from Kimbove, Katanga, $4000-5000 \mathrm{ft}$, taken by Neave in June 1907.

## Stizus simpsoni, sp. ו.

ㅇ. Nigra; clspoo, labro, antenuis, fronte sub antennis, pronoto, tegulis, mesopleuris, mesonoto lateribus, scutello, postscutello, segmento mediano pedibusque fusco-ferrugincis; alis anticis fusco-riolaceis, basi usque ad aream discoidalem primam hyalinis, margine lato apicali hyalino aream culitalem tertiam haud attingente; alis posticis dimidio basali hyulinis; segmento mediano nigro-piloso.
Long. 21 mm .
of Eyes converging towats the clypens, separated at the
base of the clypens by a distance almost equal to the combined length of the second and third joints of the flagellum. 'Ihnax very closely punctured; median segment more depply punctured than the thorax, without an impressed median line, clothed with short, erect, black hairs. First dorsal segment finely and rather closely punctured, the fome following segments more closely punctured; sixth dorsal serment with very sp irso and large setigerous punctures, narrowly truncate at the apex, the lateral mar, gins near the aper distinctly carinate. Busal joint of the fore tarsus with seven spines.

Hub. Yapi, Gold Coast (Simpson).
This may be distinguished from all other species of the tridentatus group with similar colouring of the wings by the black hairs of the median segment. From finestratus, Sin., which occurs in the same district, it is also distinguished by the pmacturation of the first dorsal segment, by the very different sculpture of the sixth dorsal segment, and colondifferences. The colour of the abclomen separates it from pecilopterus, Handl., mionï, Guér., and amcenus, Sm. The sculpture of the sixth dorsal segment seems to be peculiar to this species, all other allied species having that segment much more closely punctured.

## Stizus klugii, Sm.

Larra apicalis, Klug, Symb. phys. tab. xlvi. fig. 13 (1845). 오.
Larra kilugii, Sm. Cat. IIym. B.M. ir. p. 345 (1856).
A female specimen from Magadi Junction, British East Africa, has the two apical dorsal segments yellow-brown, with the sides of the third and fourth segments and a spot on each side near the apex of the second segment yellow. I look on this as a colon- variety only, though it may possibly be of subspecific importance.

## Subfamily Larrince.

## Tachytes admirabilis, sp. 1 .

\&. Nigra; fronte argenteo-pubescente, abdomine segmentis dorsalibus aureo-pubescentibus, area pygidiali fusco-aureo-setosa; alis anticis infuscatis, posticis subhyalinis, renis nigris.
Long. 23 mm .
8. Clypens scarcely convex, the apical margin almost transverse, very finely and closely punctured, with a few large scattered punctures, clothed with short silver pubes-
cence, slightly deflexed from the middle to the apex. Eyes separated on the vertex by a distance nearly equal to tho combined length of the two basal joints of the fligellum; second joint of the flagellum distinctly longer than the third. Median segment more than half as long again as the selltellum, with a very obsenre improssed median line; the posterior slope rather mdistinctly transversely striated, with a deep median sulcus; pubescence of the thorax and median segment greyish and very sparse. Dorsal surface of the abdomon densely covered with golden pubescence, which is denser and brighter on the apical than on the basal half of the segments; apical half of the fifth dorsal segment and basal half of the first without golden pubescence. Pygidial area elongate, very narrowly rounded at the apex, densely chothed with short setre, which change according to the light from fulvous-gold to black. Second ventral segment shining, with sparse and fairly large punctures. Basal joint of the fore tarsus with six spines. Second abscissa of the radins a little longer than the third, both being distinetly longer than the space between the two recurrent nervures.

Hab. Uganda; Eastern Mbale district, S. of Mt. Elgon, 3700 ft ., August 2-5 ; Mbale Kımi road, S. of Lake Salisbury, $37 \mathrm{~T} 0 \mathrm{ft}$. ., Aurrist 15-17; between Kumi and N.E. shore of Lake Kioga, 3600 ft . (S. A. Neave) ; Entebbe, August 15 (C. G. Gowdey).
'Ihis is very near T. mira, Kohl, but differs in the dark fore wings, in the distinctly greater distance between the eyes on the vertex, in the coarser pubescence of the pygidial area (this area being also rather narrower at the apex), and in the greater size.

The male of this species differs from the male mira in the infuscate fore wings, in the shape of the seventh dorsal segment, which is truncate at the apex, not very broadly rounded as in mira (this segment in both species is veiy broad, not narrow as in observabilis, Kohl) ; the eighth ventral segment is much more shallowly emarginate, with shorter teeth at the apical angles than in mira.

Tachytes mira, Kohl.
Tachytes mira, Kohl, Aun. Naturhist. IIofmus. Wien, ix. p. 29\% (1894). ㅇ.

## Hab. Delagoa Bay (D)r. Brauns).

According to my identification this species is also found Ann. de Mag. N. Mist. Ser. S. Vol. xvii. 30
at Salishury, Mashonaland (Marshall); Mlanje, Nyasaland (.Vener) : and prolably also in Uganda.

This oceurs in Nyasaland together with $T$. observabilis, which is very similar in colour.

## Tachytes dilaticornis, sp. n.

d. Niger, aureo-pilosus; eapite, thorace segmentoque mediano pallide aureo-pilosis; abdomine hete aureo-pubescente, segmentis dorsalibus faseia apicali densins aureo-pubescente, segmentis dorsalibus et ventralibus apice late brunneis; tegulis fuseis; alis flaris, apice latissime infuseatis; flagello articulis $2-7$ infra ralide dilatatis.
Long. 14 mm .
$\sigma^{7}$. Clypeus finely and closely punctured, very broadly rounded at the apex, the apical margin narrowly depressed in the middle. Eyes strongly convergent above, separated on the vertex by a distance not exceeding the length of the third joint of the flagellum. The second joint and those following as far as the seventh joint of the flagellum very strongly arcuate-dilatate beneath, the second and fourth joints both distinctly longer than the third, their greatest breadth exceeding half their length. Head, thorax, and median segment clothed with pale golden pubescence, that on the abdomen much brighter. Median segment more than twice as long as the scutellum; a depressed median line on the surface of the posterior slope, but not extending to the dorsal surface except at the extreme apex. Basal joint of the fore tarsus with five slender spines. Eighth ventral segment broadly rounded or subtruncate at the apex, without lateral spines. Secend aliscissa of the radius shorter than the third, the first recurrent nervure as far from the second as from the first transverse cubital nervure. The fuscous margin of the fore wing extends to the first transverse cubital nervure.

Hub. Kıja Valley, S. Kavirondo, British East Africa, 4000 tt., April 30-Mlay 1, 1911 (S. A. Neave) ; 4 ठ $\delta^{\delta}$.

This species is easily distinguished by the strongly dilated antemnal joints. In the species of Tachytes with golden pubescence on the abdomen the form of the eighth ventral segnient of the male gives exccllent specific characters.

## Tachytes memnon, sp. ı.

ㅇ. Xigra ; elypeo, fronte genisque aureo-pilosis; flagello articulis duobus basalibus seapoque ferrugineis; tibiis tarsisque auticis,
femoribusque anticis apice brumeo-ferrugineis; alis nigris, c:eruleo-tinetis; tegulis brumueis.
Long. 18 mm .
f. Clypens very broadly rounded at the apex, almost fransverse, the apical margin narrowly transversely depressed, with two small teeth on each side, finely and mather closely pmetured. Second joint of the flagellum as long as the first and thind combined; eyes separated on the vertex by a distance equal to the length of the second joint of the flagellum; an obscure longitudinal sulcus on the vertex behind the posterior ocelli. Pubescence of the thoras, median segment, and abdomen blackish, the median segment about halt as long again as the scntellum, with a very obscure median line. Abdomen microscopically puncturerl, subopraque, the pubescence on the dorsal surface black, a littlo closer on the apical than on the basal portion of the segments. Sixth dorsal segment rather broadly rounded at the apex, clothed with stiff black hairs. Second ventral segment closely and evenly punctured, the apical margin almost smooth. Basal joint of the fore tarsus with five spines on the onter margin. Second abscissa of the radius shorter than the third, equal to the distance between the two recurrent nervures.

Jhab. Mlanje, Nyasaland, April (S. A. Neave).
This is allied to T. natalensis, Sauss., but l do not think that it is the female of that species, which was described from a male. The pubescence of the clypens and front is white in rutalensis. The two species are doubtless very nearly related.

## Tuchytes nigropilosellus, C'am.

Liris niytrpilosellus, Cam. Ann. Transraal Mus. ii. p. 132 (1910).
Tachytes gigas, Bisch. Arch. f. Naturges. p. 66, $\Lambda$, 3 (1913). f.
Cameron las placed this species in the wrong genus, as Bischoff thought probable. I have seen Cameron's type. The species is quite distinct from nutulensis, Sauss., the male nigropilosellus having the elypens and front covered with long back hairs and the eiglith ventral segment rather deeply emarginate on the midlle of the apical margin, but without lateral spines, whereas in rutalens's the front and clypens are clothed with short white pubsscence and the enargination of the eighth ventral segment is extremely shallow.

## Subfimily Nitelin.e.

Nitela rufiventris, sp. n.
ㅇ. Nigra ; mandibulis, scapo, flagello articulis duobus basalibus, tegulis, abdomine pedibusque ruto-ferrugineis; alis hyalinis, iridescentibus, renis testaceis, stigmate radioque nigris.
Long. 3.5 mm .
ㅇ. Clypeus not strongly convex, without a distinct carina. Eyes strongly divergent towards the clypens, separated on the vertex by a distance equal to the length of the two basal joints of the flagellum. Head finely and closely punctured, the front thinly clothed with short pale golden pubescence; posterior ocelli almost touching the eyes. Pronotum nearly as long as the scutellum, not sunk below the mesonotmm, the margins only very slightly raised, so that the usual transverse sulcus is not well defined. Mesonotum closely and finely punctured, with a row of larger punctures before the scutellum, which is almost smooth. Median segment coarsely longitudinally striated, rounded at the apical angles, the posterior slupe more finely transversely striated. Abdomen smooth and shining. Legs unarmed.

Mab. Monkey Bay, Lake Nyasa, Juue (W. A. Lamborn).
The nenration is as in typical Nitela, but the species is easily recognized by the colour.
LIII.- Notes on the Apidæ (IIymenoptera) in the Collecton of the British Museum, with Descriptions of new Species. By Geoffrey Meade- Waldo, M.A.*
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## VII.

The following notes and descriptions were prepared during the recent rearrangement of the collection of Apidæ in the Museum.

Much valuable information on the type-specimens \&c. contained in the British Musemm has already been published by Professor Cockerell, who had studied them during a

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[^0]:    * [We deeply regret the death of our valued contributor Mr. G. MeadeWaldo, who passed away on the 11th of March at the early age of $3 \because$. The proof of this paper, which he sent to the 'Annals' shortly before his death, has been kindly corrected by Mr. R. E. Turner.-Eds. 'Annals.']

